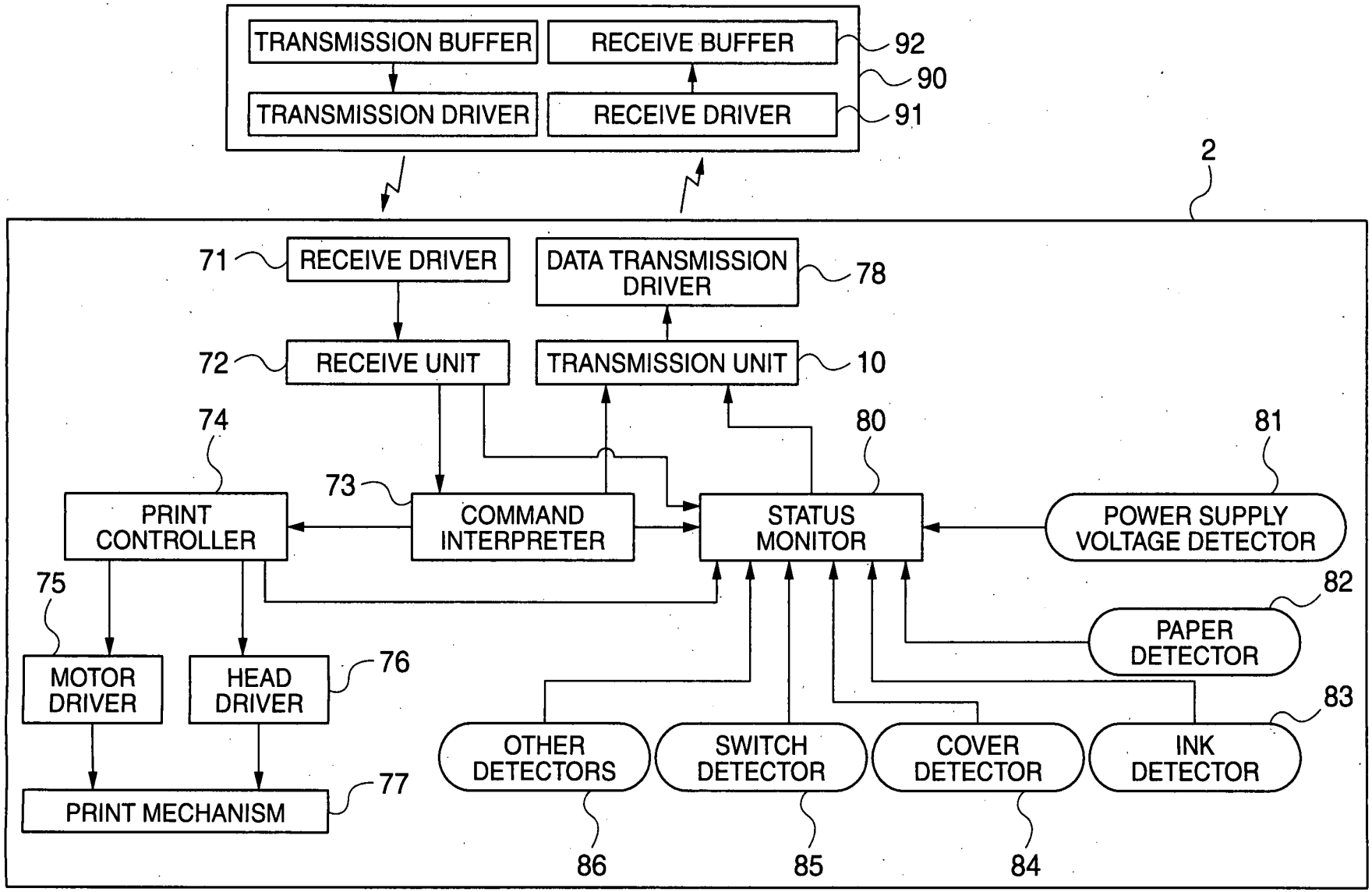
TRANSMISSION BUFFER
RECEIVE BUFFER
92
90
TRANSMISSION DRIVER
RECEIVE DRIVER
91
2
71
RECEIVE DRIVER
DATA TRANSMISSION DRIVER
78
72
RECEIVE UNIT
TRANSMISSION UNIT
10
74
80
81
73
PRINT CONTROLLER
COMMAND INTERPRETER
STATUS MONITOR
POWER SUPPLY VOLTAGE DETECTOR
75
82
PAPER DETECTOR
MOTOR DRIVER
HEAD DRIVER
76
83
OTHER DETECTORS
SWITCH DETECTOR
COVER DETECTOR
INK DETECTOR
PRINT MECHANISM
77
86
85
84

FIG. 1

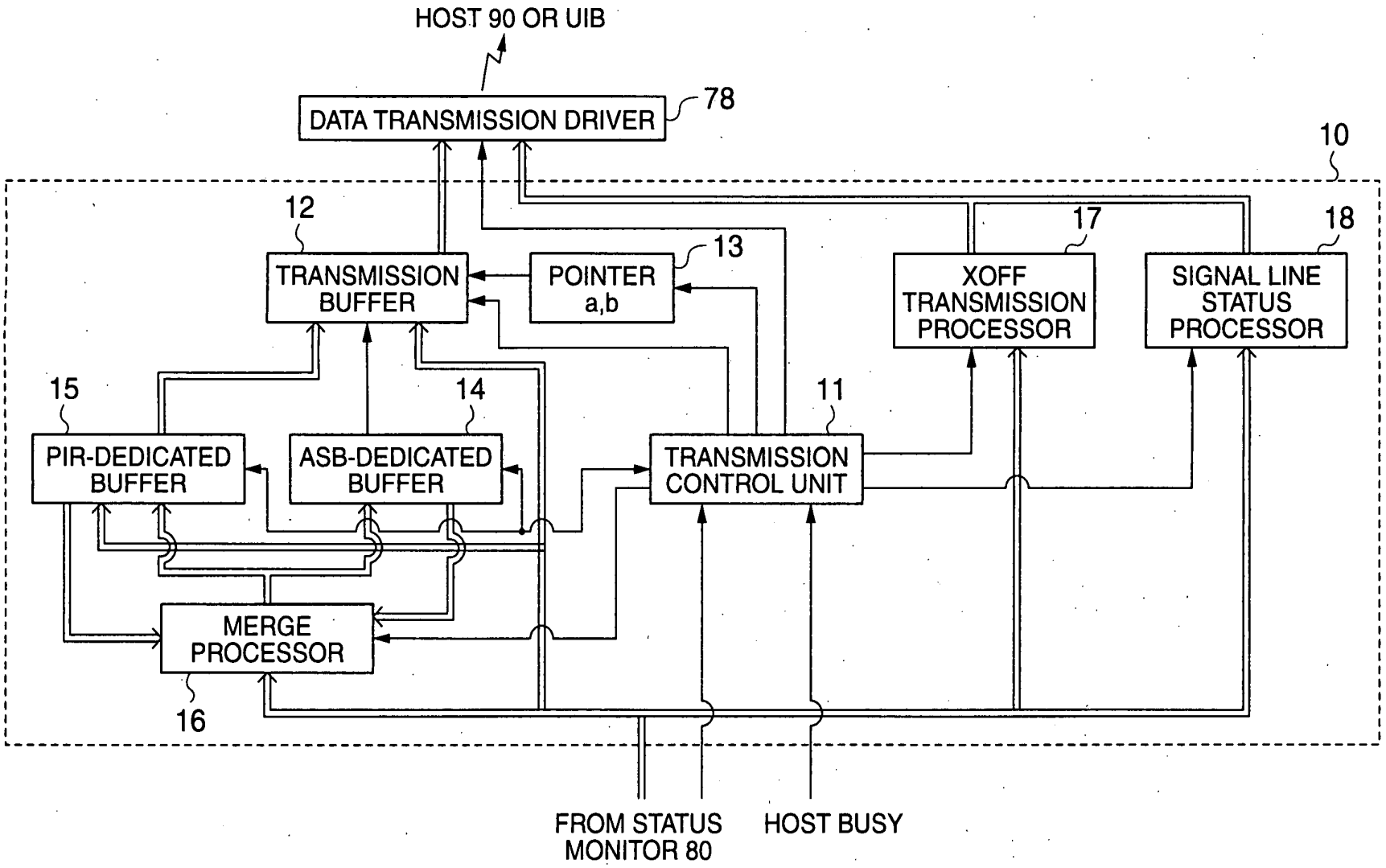
HOST 90 OR UIB
DATA TRANSMISSION DRIVER
78
10
12
TRANSMISSION BUFFER
POINTER a,b
13
17
XOFF TRANSMISSION PROCESSOR
18
SIGNAL LINE STATUS PROCESSOR
15
PIR-DEDICATED BUFFER
14
ASB-DEDICATED BUFFER
11
TRANSMISSION CONTROL UNIT
MERGE PROCESSOR
16
FROM STATUS MONITOR 80
HOST BUSY

FIG. 2

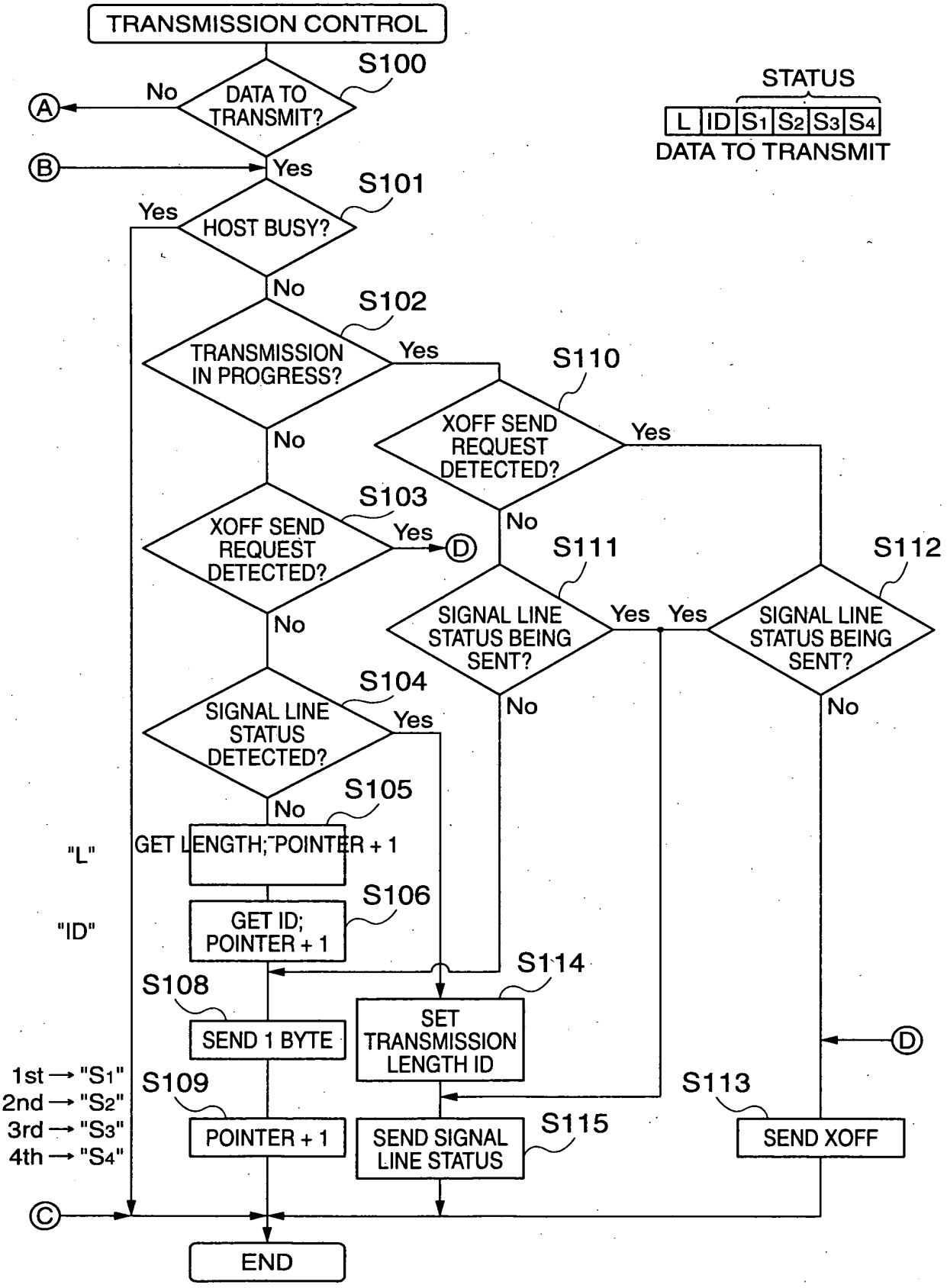
TRANSMISSION CONTROL
S100
DATA TO TRANSMIT?
No
Yes
A
B
STATUS
L
ID
S1
S2
S3
S4
DATA TO TRANSMIT
S101
HOST BUSY?
Yes
No
S102
TRANSMISSION IN PROGRESS?
Yes
No
S110
XOFF SEND REQUEST DETECTED?
Yes
No
S103
XOFF SEND REQUEST DETECTED?
Yes
D
No
S111
SIGNAL LINE STATUS BEING SENT?
Yes
No
S112
SIGNAL LINE STATUS BEING SENT?
Yes
No
S104
SIGNAL LINE STATUS DETECTED?
Yes
No
S105
"L"
GET LENGTH; POINTER + 1
S106
"ID"
GET ID; POINTER + 1
S114
S108
SEND 1 BYTE
SET TRANSMISSION LENGTH ID
D
1st → "S1"
2nd → "S2"
3rd → "S3"
4th → "S4"
S109
POINTER + 1
S115
SEND SIGNAL LINE STATUS
S113
SEND XOFF
C
END

FIG. 3

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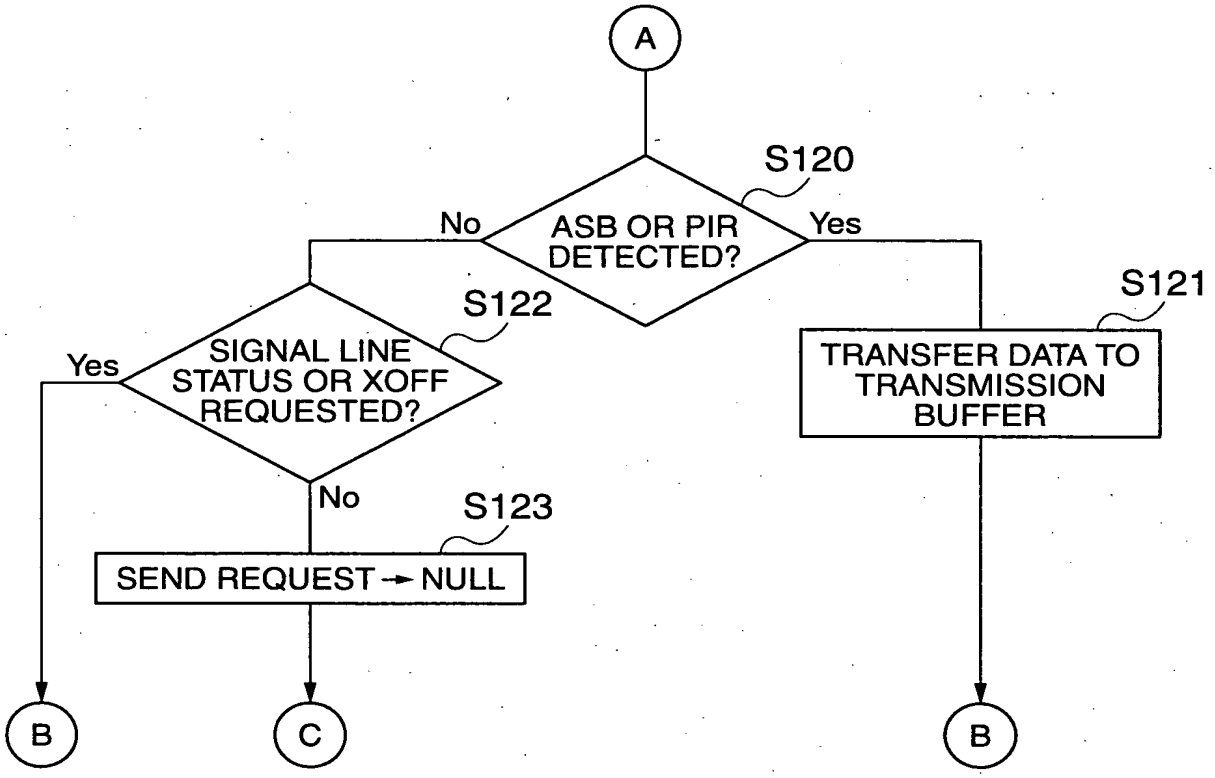

FIG. 4

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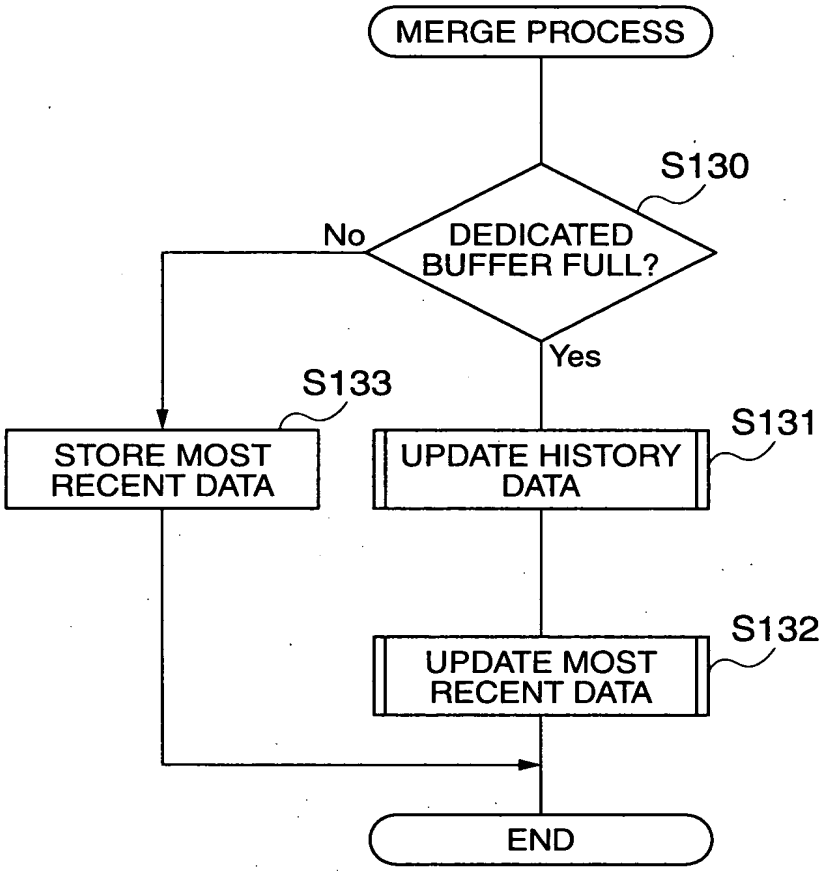

FIG. 5

T0022T "6EE9200T

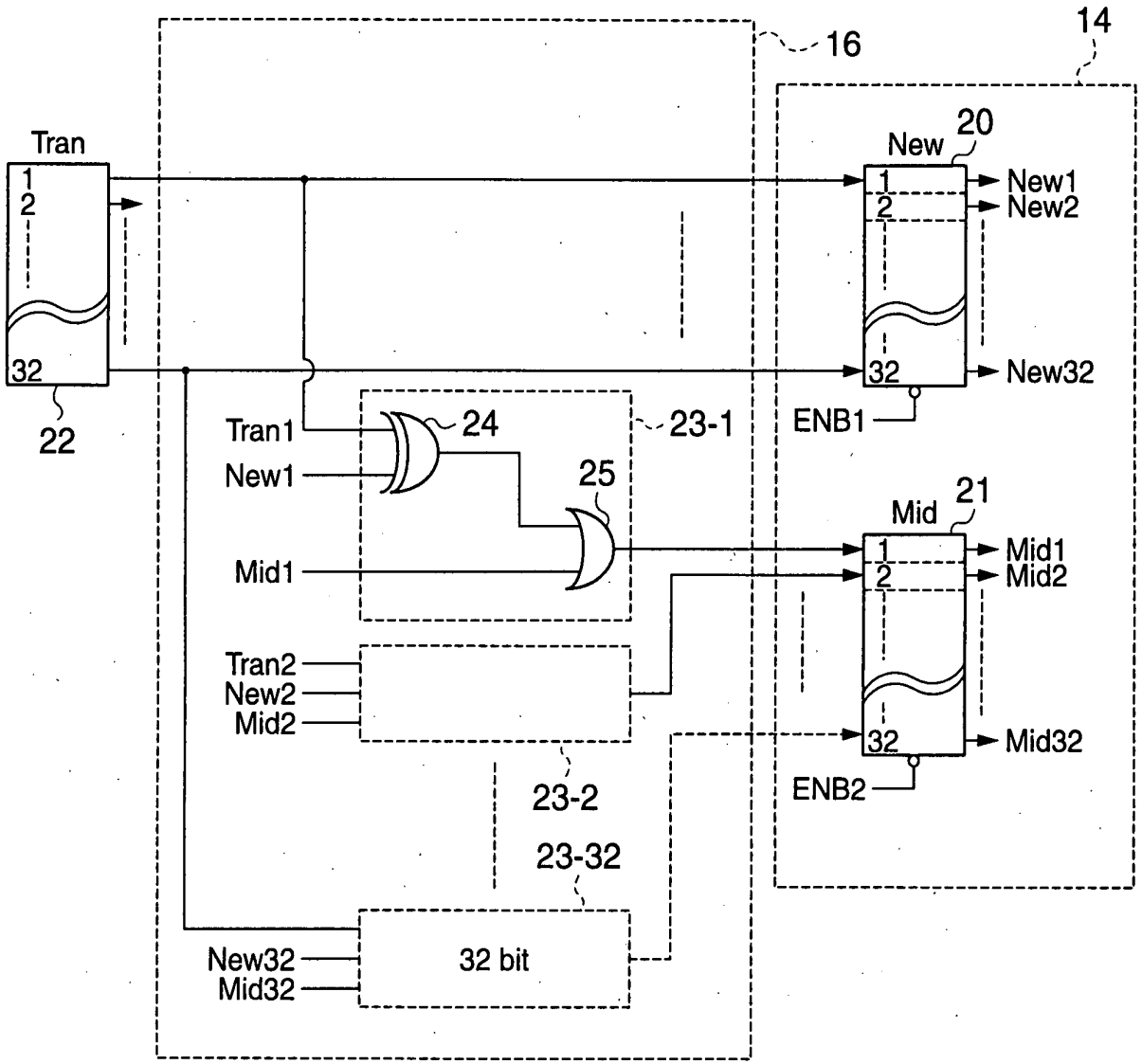

FIG. 6

T0021T 6E9200T

DATA CHANGES (8BIT'S)

	MOST RECENTLY GENERATED DATA (TRAN)	HISTORY DATA (MID)	MOST RECENTLY STORED DATA (NEW)
DATA 1	0 0 0 0 0 0 0 1	→	0 0 0 0 0 0 0 1
DATA 2	0 0 0 0 0 0 1 0	0 0 0 0 0 0 1 1	0 0 0 0 0 0 1 0
DATA 3	0 0 0 0 0 1 0 0	0 0 0 0 0 1 1 1	0 0 0 0 0 1 0 0
DATA 4	0 0 0 0 1 0 0 0	0 0 0 0 1 1 1 1	0 0 0 0 1 0 0 0
DATA 5	0 0 0 1 0 0 0 0	0 0 0 1 1 1 1 1	0 0 0 1 0 0 0 0
DATA 6	0 0 0 0 0 0 0 1	0 0 0 1 1 1 1 1	0 0 0 0 0 0 0 1

FIG. 7

T0023T" 6EE920DT

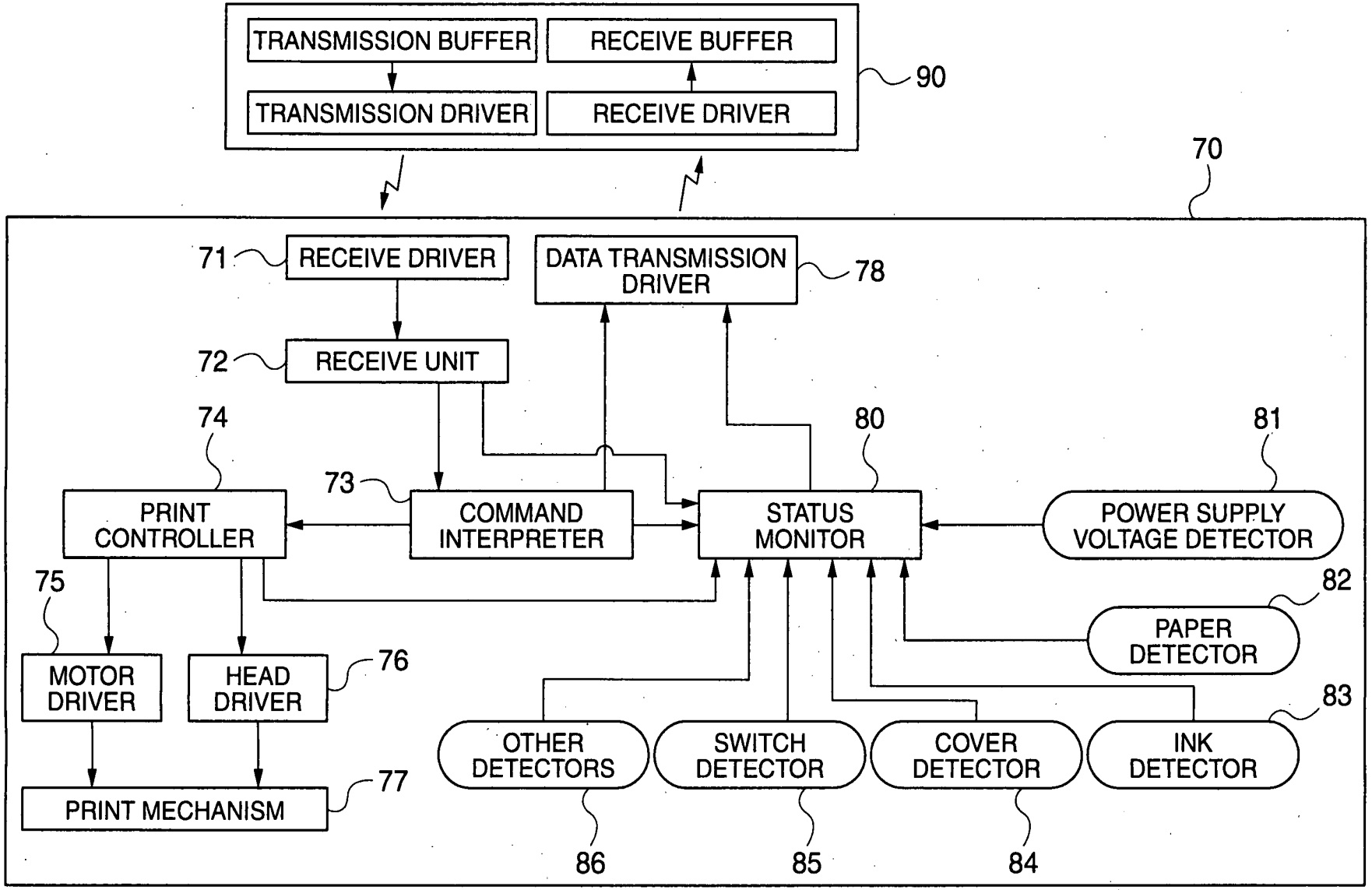

FIG. 8